

## ABSTRACT OF THE DISCLOSURE

A two stage drilling mud clarification or reclamation system is provided. Drilling mud is delivered to the first stage and then into a tank for storing temporarily the liquids separated from the mud. The heavier weight components are segregated, stored and later 5 added back to the liquid discharge of the second stage to provide an output stream of drilling mud having a specified weight for use in drilling. The lighter weight components are removed at the second stage and are discarded to clean the mud. A control system provides for operation and control of the system. Control of the first stage centrifuge provides for control of bowl speed for clean barite recovery and control of feed rate for operation at 10 highest safe torque level. Control of the second stage centrifuge is provided for control of feed rate for maximum removal of low gravity solids, and control of conveyor speed for driest solids discharge consistent with highest safe torque level. Control of a cuttings drier controls feed rate for highest safe torque, and control of conveyor speed to control dryness of low gravity solids to be discharged from the system. Means is provided to determine the 15 effectiveness of the system in removing solids and a report is generated to demonstrate the quantity of drilling mud that is saved by the system and the amount of contaminants to be discharged to the environment.